

# DATA SHEET

41110704      ENGOBE ENSP-09 PARDO POLVO

29/01/2025    v1.4

## 1. PRODUCT IDENTIFICATION

Description      GREENISH BROWN ENGOBE. It belongs to the "ENSP" series ( COLOURED ENGOBE). Compound of frit:  
CAS N°. 65997-18-4.

Application      Can be used for decoration of white body or red bodies. The temperature range is from 930 to 1050 ° C,  
obtaining the maximum colour development at 980 ° C. They can be used at higher temperatures  
obtaining other finishes

## 2. CHEMICAL COMPOSITION

Metal oxides with concentrations less than 0.05% have not been determined.

Li <sub>2</sub> O		ZnO	0.5-1	Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>			
Na <sub>2</sub> O	1-5	MnO		B <sub>2</sub> O <sub>3</sub>	5-10	Bi <sub>2</sub> O <sub>3</sub>		Co-Cr-Al	5-10
K <sub>2</sub> O	0.5-1	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>		Fe-Cr-Zn	5-10
MgO	5-10	CoO		MnO <sub>2</sub>		BeO		MEDIUM	0-0.5
CaO	5-10	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>		LOI	1-5
SrO	0-0.5	Al <sub>2</sub> O <sub>3</sub>	5-10	TiO <sub>2</sub>	0-0.5	CuO			
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>		Pr <sub>2</sub> O <sub>3</sub>			
PbO		Sb <sub>2</sub> O <sub>3</sub>		SnO <sub>2</sub>					

## 3 PHYSICAL-CHEMICAL PROPERTIES

Aspect      Greenish brown powder  
Color(fired)      Greenish brown

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 42.17      a: -5.52      b: 14.58

## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L      10<sup>-7</sup> C<sup>-1</sup>

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation	T <sup>a</sup> Softening	Melting point
50.4	49.3	64	98.4	538 C°	885 C°	>980 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

\* Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
34.8	11.9	5.1	1.1	0	5.9

## 7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Formulated without lead and cadmium.

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)



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